

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-6 (Canceled).

Claim 7 (Currently Amended): A process for rotomoulding a part including at least one first layer, made of a compact polymer, and a second layer made of a foam polymer and surrounded on one face by the first layer, the process comprising:

placing a first quantity of material to make up the first layer in a mold;

rotating the mold to form the first layer and heating the first quantity of material to melt it the first quantity of material;

then placing a second quantity of material to make up the second layer in the mold and restarting rotation of the mold,

wherein the heating is interrupted before the second quantity of material reaches its a foaming temperature for the second quantity of material, but the mold is kept rotating until the second quantity of material reaches the foaming temperature and as long as the second quantity of material remains at or above this said foaming temperature, thus forming the second layer.

Claim 8 (Previously Presented): Rotomoulding process according to claim 7, wherein the heating is interrupted as soon as the mold reaches a determined temperature between a melting temperature and the foaming temperature of the second quantity of material.

Claim 9 (Previously Presented): Rotomoulding process according to claim 7, further comprising:

placing a third quantity of material in the mold, to make up a third layer, made of a compact polymer, when the second layer has been formed, and then the mold is rotated again and heated.

Claim 10 (Previously Presented): Rotomoulding process according to claim 9, wherein heating of the mold before placement of the third quantity of material is interrupted before the third quantity of material reaches its melting temperature.

Claim 11 (Canceled).

Claim 12 (Previously Presented): Rotomoulding process according to claim 7, applied to a part for which a thickness or chemical nature of layers surrounding the foam layer is different.

Claim 13 (New): Rotomoulding process according to claim 7, comprising:  
applying heat to the second quantity of material until the second quantity of material reaches a predetermined temperature above a melting temperature for the second quantity of material and below said foaming temperature,  
rotating said mold during said step of applying heat to the second quantity of material;  
interrupting said applying of heat to the second quantity of material when the second quantity of material reaches said predetermined temperature below said foaming temperature;  
after interrupting said applying of heat to the second quantity of material, maintaining said rotating of said mold while the second quantity of material continues to heat by thermal inertia and exceeds said foaming temperature such that foaming occurs in the second quantity of material during said rotating, and further maintaining said rotating while the second

quantity of material cools from above said foaming temperature to below said foaming temperature; and

stopping said rotating after the second quantity of material has cooled below said foaming temperature.

Claim 14 (New): Rotomoulding process according to claim 13, wherein said second quantity of material includes a powder of foaming polymer.